

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P189544

Luminaire Tested: **BRG-WD-1L35-LD2-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P189544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34970)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: BRG-WD-1L35-LD2-UNV-22-STD
Description: BRIDGE 2x2 LED RECESSED LUMINAIRE WITH A FULL PATTERN WAVEGUIDE AND ROUND PERF INLAY
LIGHT LEVEL 1 (408 mA)
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1894.3 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.42
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

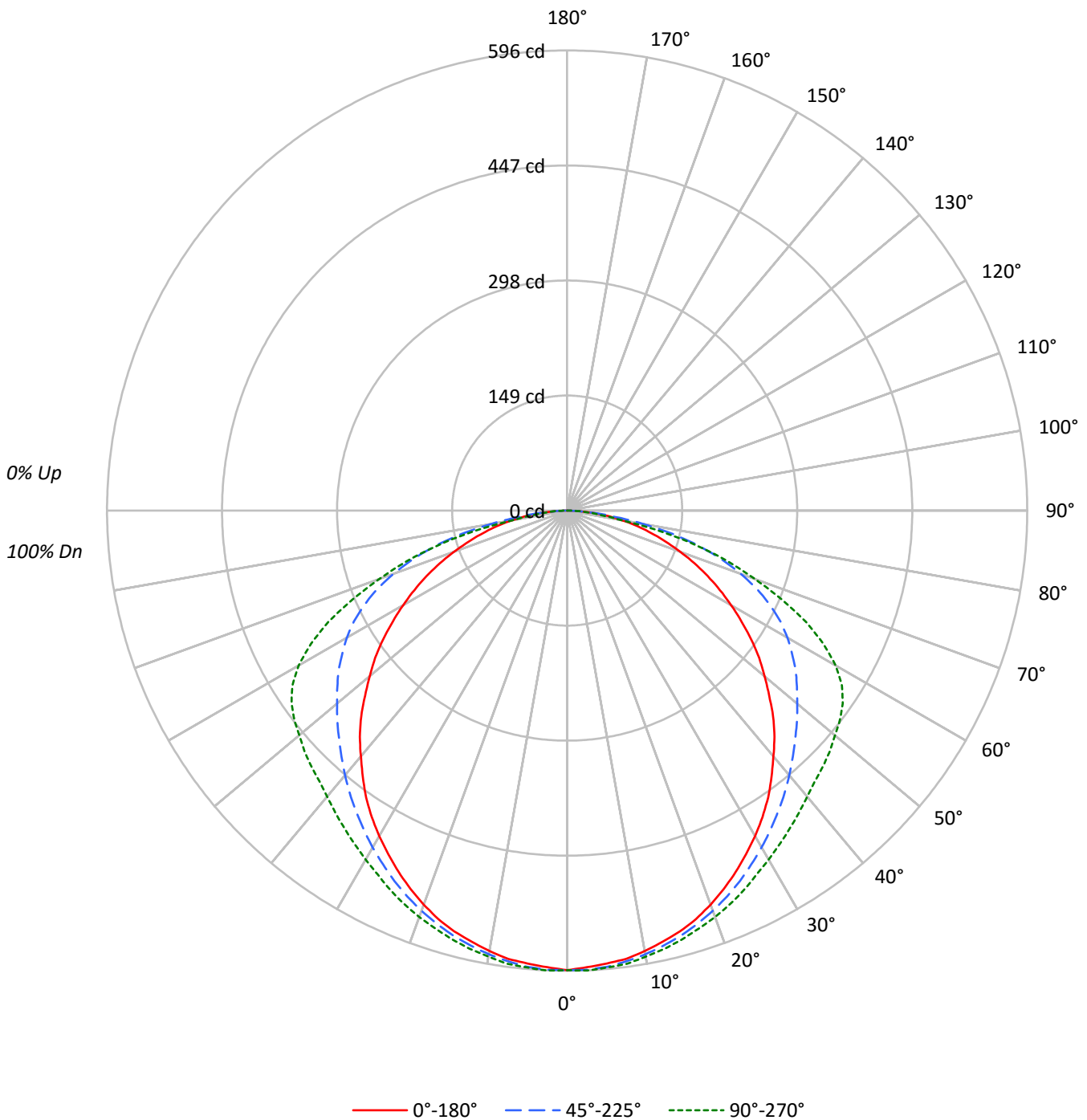
Input Watts (W): 18.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	96	93	96	93	90	92	89	87	89	86	84	82
2	97	89	81	75	95	87	80	74	83	77	73	80	75	71	77	73	69	67
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	56	50	62	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	30
8	59	45	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	29	24	50	37	29	24	36	29	24	35	28	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1906	1906	1906
5°	1893	1907	1910
10°	1884	1897	1908
15°	1871	1889	1906
20°	1851	1880	1909
25°	1825	1870	1916
30°	1800	1863	1930
35°	1774	1862	1965
40°	1737	1871	2022
45°	1709	1892	2123
50°	1663	1938	2256
55°	1626	2018	2433
60°	1572	2110	2574
65°	1522	2199	2586
70°	1453	2239	2419
75°	1394	2183	2131
80°	1333	1863	1313
85°	1172	1249	977



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	3.0
10°-20°	160.8	8.5
20°-30°	244.0	12.9
30°-40°	298.8	15.8
40°-50°	324.6	17.1
50°-60°	323.3	17.1
60°-70°	277.0	14.6
70°-80°	169.3	8.9
80°-90°	40.3	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	461.0	24.3
0°-40°	759.8	40.1
0°-60°	1407.7	74.3
0°-90°	1894.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1894.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	595	595	595	595	595	
5°	589	591	593	594	594	56
15°	564	565	570	574	575	159
25°	516	520	529	538	542	238
35°	454	459	476	494	503	283
45°	377	388	418	451	469	290
55°	291	314	361	410	436	260
65°	201	238	290	327	341	199
75°	113	155	176	176	172	120
85°	32	42	34	29	27	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	595.2	595.2	595.2	595.2	595.2
2.5°	592.0	593.1	595.2	596.3	596.3
5°	588.8	590.9	593.1	594.1	594.1
7.5°	585.6	586.7	588.8	590.9	592.0
10°	579.3	580.3	583.5	586.7	586.7
12.5°	571.8	573.9	577.1	580.3	581.4
15°	564.4	565.4	569.7	573.9	575.0
17.5°	554.8	555.9	561.2	566.5	567.6
20°	543.1	545.2	551.6	556.9	560.1
22.5°	530.4	532.5	541.0	548.4	551.6
25°	516.5	519.7	529.3	537.8	542.1
27.5°	501.7	505.9	516.5	527.2	531.4
30°	486.8	491.0	503.8	516.5	521.9
32.5°	470.8	476.2	490.0	504.9	512.3
35°	453.8	459.2	476.2	494.2	502.7
37.5°	434.7	443.2	462.3	483.6	493.2
40°	415.6	425.1	447.5	471.9	483.6
42.5°	397.5	407.1	432.6	461.3	475.1
45°	377.3	387.9	417.7	450.6	468.7
47.5°	355.0	369.9	403.9	441.1	461.3
50°	333.7	350.7	389.0	431.5	452.8
52.5°	313.5	332.7	375.2	422.0	445.3
55°	291.2	313.5	361.4	410.3	435.8
57.5°	267.8	294.4	345.4	396.4	422.0
60°	245.5	275.3	329.5	379.4	401.8
62.5°	223.2	258.3	311.4	357.1	374.1
65°	200.9	238.1	290.2	327.4	341.2
67.5°	178.6	220.0	266.8	293.3	300.8
70°	155.2	198.8	239.1	255.1	258.3
72.5°	133.9	177.5	209.4	216.8	217.9
75°	112.7	155.2	176.4	176.4	172.2
77.5°	93.5	129.7	140.3	131.8	124.4
80°	72.3	99.9	101.0	81.8	71.2
82.5°	52.1	71.2	62.7	48.9	43.6
85°	31.9	42.5	34.0	28.7	26.6
87.5°	11.7	13.8	11.7	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)